SITE SOILS CHARACTERIZATION AND CLEANUP REPORT

MILES SAND & GRAVEL COMPANY 1201 M Street SE AUBURN, WA 98002

Prepared for:

Miles Sand & Gravel 400 Valley Avenue NE Puyallup, WA 98372

Prepared by:

Blue Sage Environmental, Inc. P.O. Box 6738 Kennewick, WA 99336

October 13, 2014

STATEMENT OF WARRANTY

This report has been prepared for the sole use of Miles Sand & Gravel Company, their management, and their designated representatives. Blue Sage Environmental, Inc. (BSE) of Kennewick, Washington managed sample gathering, analytical methods, data review, and project reports as required by the Washington State Department of Ecology, Toxics Cleanup Program. Mr. Alexander H. Koch, environmental projects manager for BSE, directed all on-site technical services.

The analysis and conclusions in this report are based on site conditions, as they existed during the length of this investigation. Blue Sage Environmental, Inc. makes no warranty to the environmental condition of this property or to any bordering property or properties. BSE has solely reported findings from specific actions taken as a result of performing a site soil characterization following a cleanup in accordance with Washington State Department of Ecology guidelines and regulations. No other warranty or representation, express or implied, is made.

Signature October 13, 2014
Date

Alexander H. Koch Washington State Site Assessment Certified ICC No. 1059552-U7 Expiration date July 19, 2015

INTRODUCTION

SITE NAME AND LOCATION:

Miles Sand & Gravel Company 1201 M Street SE Auburn, WA 98002 (*Figures 1&2*) King County Parcel: 1921059082 Ecology Facility Site ID #87547247

Legal Description:

E 1000.00 FT OF W 1030.00 FT OF N 330.80 FT OF FOLG GLS 9 & 10 IN NE 1/4 & ABANDONED RIVER BED LY THIN

SITE OWNER:

Muckleshoot Indian Tribe 39015 172nd SE Auburn, WA 98092 (253) 876-3136

PROJECT PURPOSE:

Miles Sand & Gravel Company (MS&G) has operated the Auburn pit and concrete batch plant since the 1940s. In October 2009, they sold this property to the Muckleshoot Indian Tribe. MS&G leased back the property for a five year period which expires December 31, 2014. At the end of the lease, all structures relating to the operation of the sand and gravel and concrete batch plant are to be removed. This includes the Underground Storage Tank (UST) system that MS&G uses to refuel their equipment.

UST HISTORY:

Three USTs were installed at the subject property in 1978. They are described as follows in Ecology's UST Tank Data Summary (*Appendix A*):

Tank ID Name	Capacity (gallons)	Size	Substance stored
Е	10,000	95"dia x 28'	Unleaded Gasoline
M	10,000	95"dia x 28'	Diesel
W	20,000	119"dia x 35'	Diesel

The USTs were positioned end to end (*Figure 3*). Each UST had a designated pump that was attached directly over the top of each tank (*Photos 1*). All piping for this system was located on top of each UST. This included the fill tube, vent piping, and fuel dispenser pump. The interior of each UST was lined with an epoxy coating in 1998 as a system upgrade.

The tops of the USTs were covered with a concrete pad. The fuel dispensing systems were on this pad. In 1998, cement skirts were added along both sides of the UST cover pad. Prior to that time, the site equipment parked on gravel during refueling.

SCOPE OF WORK:

- Remove existing USTs and associated equipment;
- Excavate any contaminated soils:
- Sample excavation sidewalls and floor for soils characterization;
- Stockpile and treat any contaminated soils on the subject property.

SAMPLE NOMENCLATURE:

Samples were numbered sequentially and preceded by the identifier, "MSG" for Miles Sand & Gravel Company, D or G (diesel or gasoline), and size of UST (10k or 20k). Stockpile samples were numbered with the identifier, "MSG", "SP" (stockpile), and numbered sequentially. Each chain of custody form has the date of sampling included as an identifier.

ANALYTICAL PARAMETERS:

Soil samples were analyzed for Diesel Range Organics (DRO) and Gasoline Range Organics as specified in MTCA Table 830-1, Required Testing for Petroleum Releases.

QUALITY ASSURANCE/QUALITY CONTROL:

Soil samples were analyzed for their individual analytes by the ESN-Northwest laboratory in Olympia, WA. The laboratory QA/QC procedures followed standard methods accepted by EPA, listed in SW-846. Laboratory QA/QC procedures included laboratory surrogate recoveries. The holding times (extraction and analysis) for all samples were within the required limits. All QA/QC for soil samples meets or exceed EPA recommended guidance. The soil samples are considered acceptable quality and usable for evaluation of the environmental conditions at the site.

SITE GEOLOGY:

The subject property is located in the Duwamish Valley, south of the Green River. A large mudflow covers the drift plain forming a broad, fertile area. The gravel pit is located against the east side of the valley wall. Underlying soils consist of flood deposited pebble-cobble-gravel and sand mixture (*Luzier*, 1969).

There is a potable-water well located on the subject property. It was completed in 1969. The well log indicates a static water level at 49 feet below the surface. State of Washington well log is attached (*Appendix B*).

UST DECOMMISSIONING:

The UST system was dismantled on September 8, 2014. Each UST was pumped empty of remaining fuel by Don Small & Sons Oil Company of Auburn. The concrete pad was removed from over the USTs exposing the tops of each tank. All pumps, vent lines and

fill tubes were removed. The USTs had been bedded in pea gravel (*Photos 2*). This was removed from along the south side of the USTs. On September 9, 2014, the USTs were triple rinsed by Marine Vacuum Service of Seattle (*Appendix C*). Each UST was inerted using dry ice.

On September 9, 2014, the three USTs were removed from the ground (*Figure 4*). A Valley Regional Fire Authority inspector was present during the day. Following removal of the USTs (*Photos 3*) remaining pea gravel was removed where it could be accessed by the tracked-excavator and stockpiled on-site (*Photos 4*). This product exhibited no odor, or discoloration associated with either diesel fuel or gasoline. A sand and gravel mixture was removed from around the 10,000 and 20,000 gallon diesel USTs. It was stockpiled on-site. Volume estimated to be just over 100 cubic yards.

The USTs were transported to the back of the pit, turned on their sides, and left to vent and dry out. MS&G is going to move them to another of their locations for future use.

Site Sampling – September 10, 2014

The USTs had been bedded in pea gravel. Releases would have migrated quickly to the bottom of each tank. Soil samples were obtained from the floor of the excavation from under all three USTs (*Figures 5*, 6 & 7)). Depth of samples from under the UST is approximate, based on depth each UST was resting on native soil. Soil samples were also obtained from the stockpiled material following excavation of the USTs.

Sample Number	Depth (ft)	Location
MSG-D20-1	12+	Floor, east end of UST
MSG-D20-2	12+	Floor, center of UST
MSG-D20-3	12+	Floor, west end of UST
MSD-D10-1	10+	Floor, east end of UST
MSG-D10-2	10+	Floor, center of UST
MSG-D10-3	10+	Floor, west end of UST
MSG-G10-1	12+	Floor, east end of UST
MSG-G10-2	12+	Floor, center of UST
MSG-G10-3	12+	Floor, west end of UST

A copy of the ESN Northwest Laboratory report, dated September 16, 2014 is attached (*Appendix D*). A summary of these results is attached in tabular form (*Table 1*). The sample under the east end of the 10,000 gallon Diesel UST reported the concentration of diesel (5,500 mg/kg) above the MTCA Method A cleanup level for soil (2000 mg/kg) for Diesel Range Organics (DRO). Concentrations from the floor samples under the 20,000 gallon Diesel UST were reported below the MTCA Method A Cleanup Level for Diesel Range Organics (DRO). Concentrations from under the 10,000 gallon gasoline UST reported not detected for Gasoline Range Organics (GRO). The five stockpile samples had one result above the MTCA Cleanup Level for Diesel.

Additional excavation was required from around the 10,000 gallon Diesel UST after review of the analytical results. The open excavations under the 20,000 gallon Diesel and 10,000 gallon Unleaded Gasoline USTs were filled with clean pit run (sand and gravel mixture).

Site Remediation – September 12, 2014

On September 12, 2014, addition excavation was completed by removal of soil from around the location of the 10,000 gallon Diesel UST. This activity lowered the floor of the excavation from 12ft to approximately 25ft below the surface. The original north wall was moved back approximately 5 feet (*Photos 5*). Approximately 174 cubic yards of excavated soil was stockpiled on the property.

Site Sampling – September 12, 2014

Soil samples were obtained from the sidewalls and floor of the excavation (*Figure 8*). Depth of floor samples is at least the depth reported. The bucket of the tracked excavator was used to obtain each sample. Scooping action of the excavator would add to the depth to the floor of 25 feet. Analysis for BTEX was suspended following a review of the results from the September 10th sampling activity. All samples results for BTEX in the excavation floor and stockpile samples reported concentrations as not detected.

Sample Number	Depth (ft)	Location
D10 - Floor E	26+	Floor, east end
D10 – Floor W	26+	Floor, west end
N Wall - East	20	North wall, east end
N Wall - Center	20	North wall, center
N Wall - West	20	North wall, west end
S Wall - East	20	South wall, east end
S Wall - West	20	South wall, west end

Concentrations of diesel above the MTCA Method A Cleanup Level were present in the north wall center and east end at a depth of approximately 20 feet below the surface. The floor of the excavation at a depth of approximately 25 feet did not report diesel concentrations above the MTCA Method A Cleanup Level. Sheen testing was used to check for the presence of diesel prior to sampling from specific locations. There was no petroleum odor present in the sidewall soils. The remaining petroleum hydrocarbons were weathered and appeared to have been in the soil for an extended period of time.

A copy of the ESN Northwest Laboratory report, dated September 16, 2014 is attached (*Appendix E*). A summary of these results is attached in tabular form (*Table 2*).

Site Remediation – September 16, 2014

Excavation resumed on September 16th around the area where the 10,000 gallon Diesel UST had been located. Elevated levels of diesel remained on the north wall after the September 12, 2014 remediation work. The north wall, east wall and south walls were

moved back several feet (*Photos 6*). Approximately 140 cubic yards of soil was removed from the area and stockpiled on the property.

Site Sampling – September 16, 2014

Soil samples were obtained from the north, east and south sidewalls of the excavation. Depth was around 20 feet. This depth was where highest concentrations of diesel had been reported from previous soil sampling.

Sample Number	Depth (ft)	Location
N Wall – East2	20	North wall, east end
N Wall – Ctr 2	20	North wall, center
East Wall-S End	20	East wall, se corner
S Wall - Ctr	20	South wall, center
S Wall – W End	20	South wall, west end

All samples reported diesel concentrations as not detected. A copy of the ESN Northwest Laboratory report, dated September 23, 2014 is attached (*Appendix F*). A summary of these results is attached in tabular form (*Table 3*).

Following receiving results from the September 16, 2014 sampling activity, an aqueous solution of surfactant and nitrogen (Urea) was applied across the open excavation area. The open excavation has been backfilled with pit run (sand and gravel mixture) from the MS&G operation.

STOCKPILE REMEDIATION:

Soil from excavation during removal of the three USTs on September 10th was laid out in a long pile, about two feet deep. Soils from excavation on September 12th and 16th were laid out in similar long piles. On September 17th, the piles were turned. An aqueous solution of surfactant and nitrogen (Urea) was applied. The piles were turned several more times prior to sampling on September 24, 2014.

Treatment of stockpiled soils by the addition of nutrients (aqueous solution) and the turning of the piles (oxygenation) lowered concentrations of diesel quickly. The weather was cooperative as daytime temperatures were in the 70s during this period with sunny days. A copy of the ESN Northwest Laboratory report, dated September 30, 2014 is attached (*Appendix G*). Results are summarized in tabular form (*Table 4*).

SUMMARY OF REMEDIATION ACTIVITIES:

Following removal of the three USTs, concentrations of diesel above the MTCA Method A Cleanup Level for Soil were detected below the 10,000 gallon Diesel UST. Native soil around and underneath the UST was best described as a pebble-cobble-gravel and sand mixture (*Photo 7*). This stratum allowed for the horizontal and vertical movement of diesel from spills that occurred over the years the UST was in operation. Remediation by the excavation of contaminated soils from around this UST was successful.

Concentrations of diesel from sidewalls and floor of the excavated area were below the MTCA Method A Cleanup Level for Soils of 2,000 mg/kg. Sample analysis from beneath the 20,000 gallon Diesel and 10,000 Gasoline USTs did not report elevated concentrations above their respective MTCA Cleanup Levels. Groundwater was not encountered in the excavations.

Treatment of stockpiles soils with elevated concentrations of diesel was successful. Following the addition of a nitrogen-nutrient source to the stockpiled soils, concentrations of diesel were below the MTCA Method A Cleanup Level. This material will be used onsite as fill.

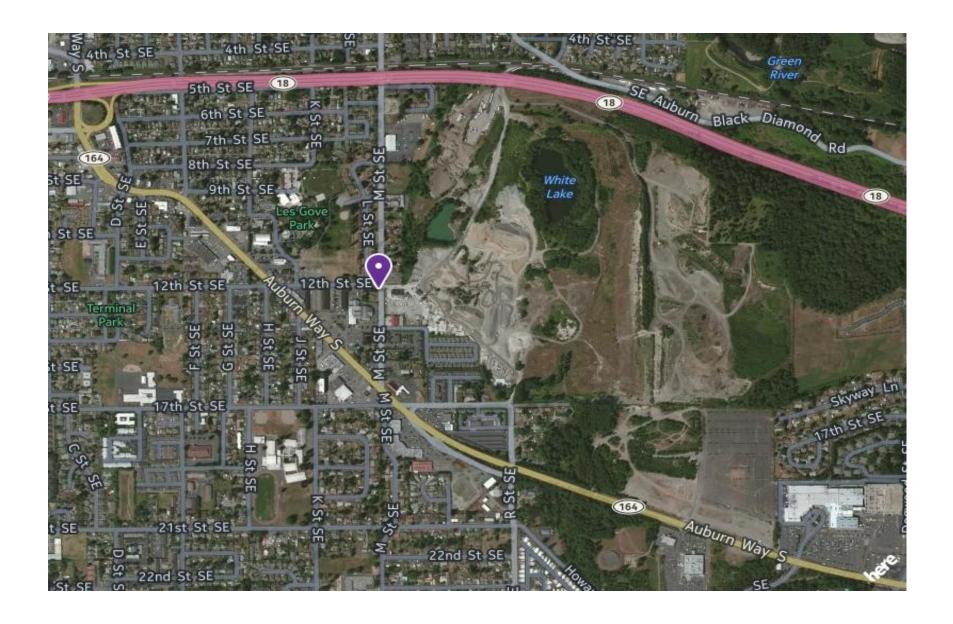
REFERENCE LIST

Luzier, J.E., 1969, Geology and Groundwater Resources of Southwestern King County, Washington, Department of Water Resources, Water Supply Bulletin No. 28, Olympia, Washington.

Washington Department of Ecology, *Model Toxics Control Act Cleanup Regulation*, Chapter 173-340 WAC, Revised November 2007.

Washington State Department of Ecology, *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*, February 1991 (Revised April 2003).

FIGURES



BLUE SAGE ENVIRONMENTAL, INC. KENNEWICK, WA TITLE Miles Sand & Gravel 1201 M Street SE Auburn, WA

SCALE: as shown
DWN:

DATE:

DWG. NO. Figure 1

Oct 3, 2014

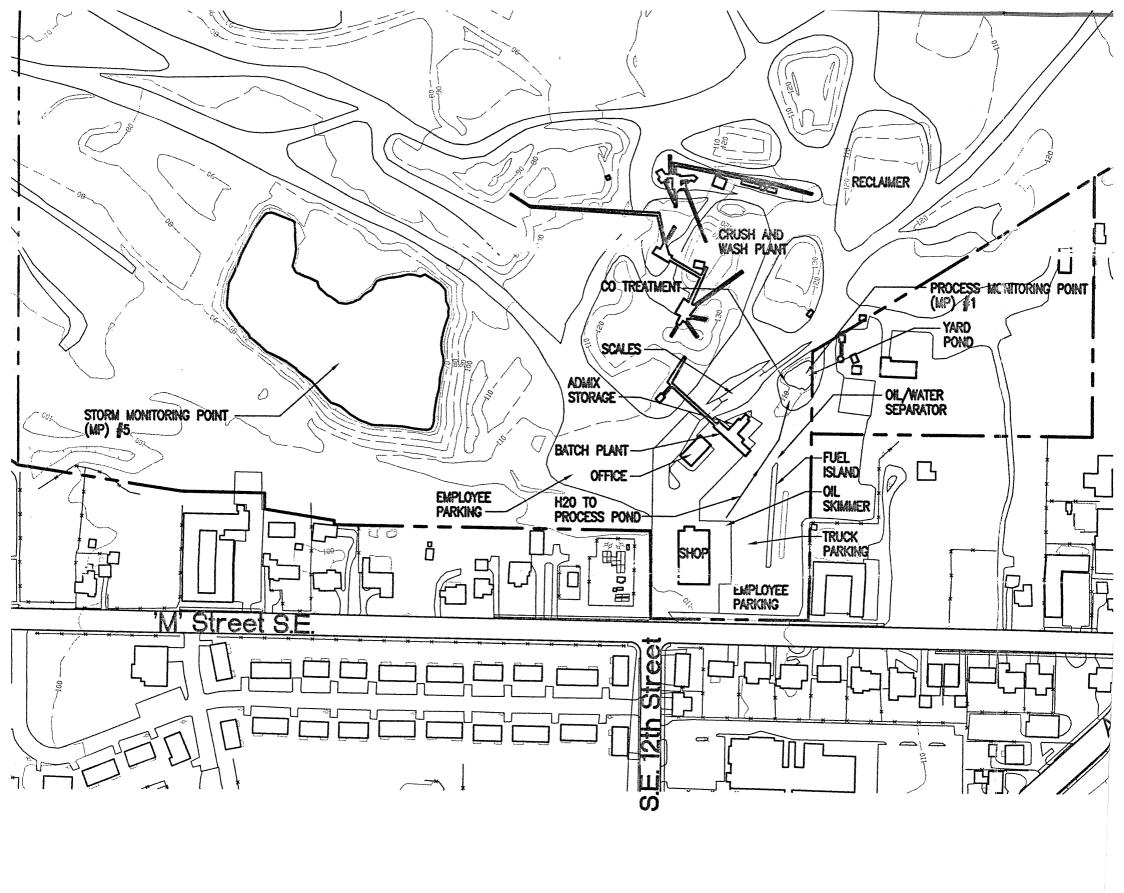


Figure 2 Site Layout Drawing

NPDES EXHIBIT MAP

1" = 200'

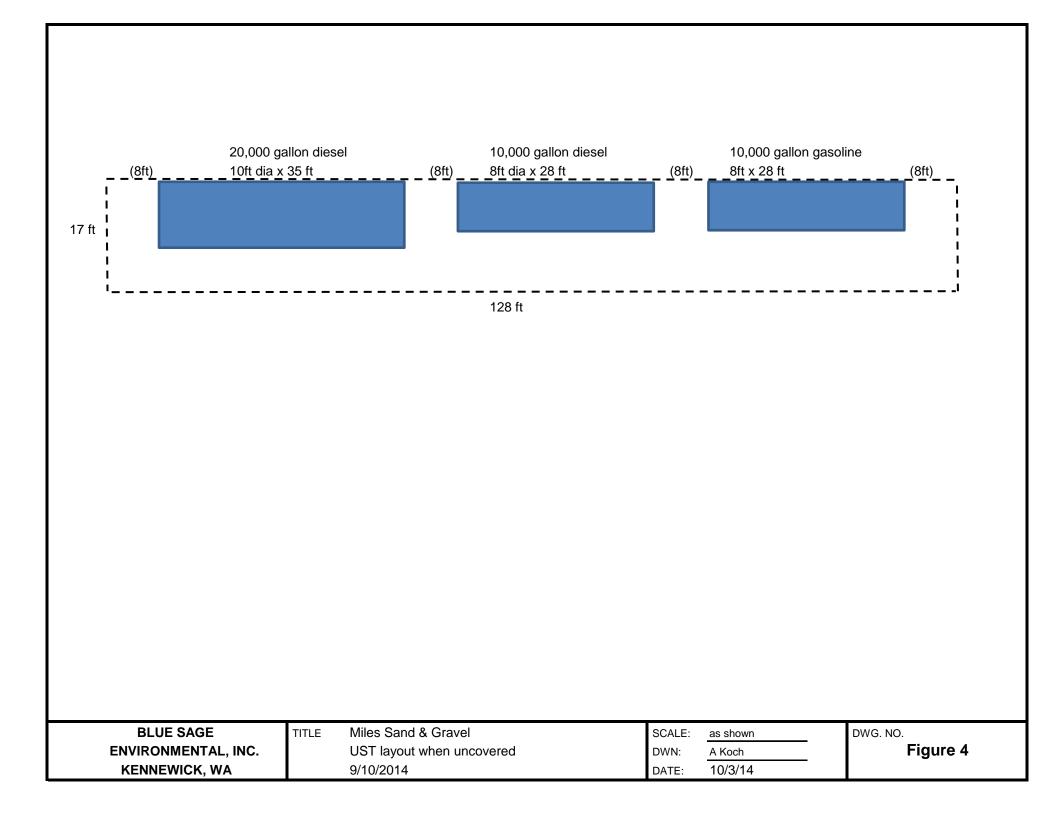


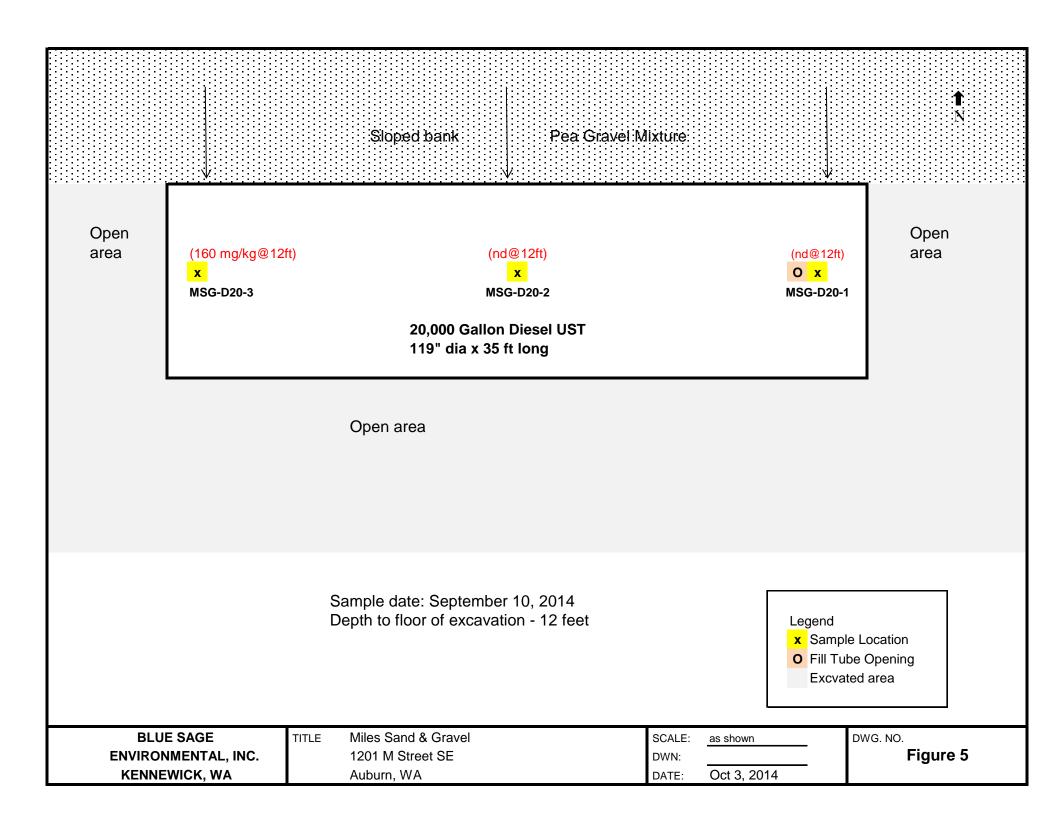
Site ID: 10786 Site Tag #: A4121 Facility Site ID: 87547247 **MILES SAND & GRAVEL** 1201 M ST SE AUBURN, WA 98002-6707 Phone #: (253) 833-3705 UBI: 171-004-760 001 0002 RC VENT VENT VENT **(S**) RECTIFIER **(S**) () 0 KIOSK SHED UST 2 UST 1 20,000 Gal Diesel 10,000 Gal Gasoline 10,000 Gal Diesel RC RC

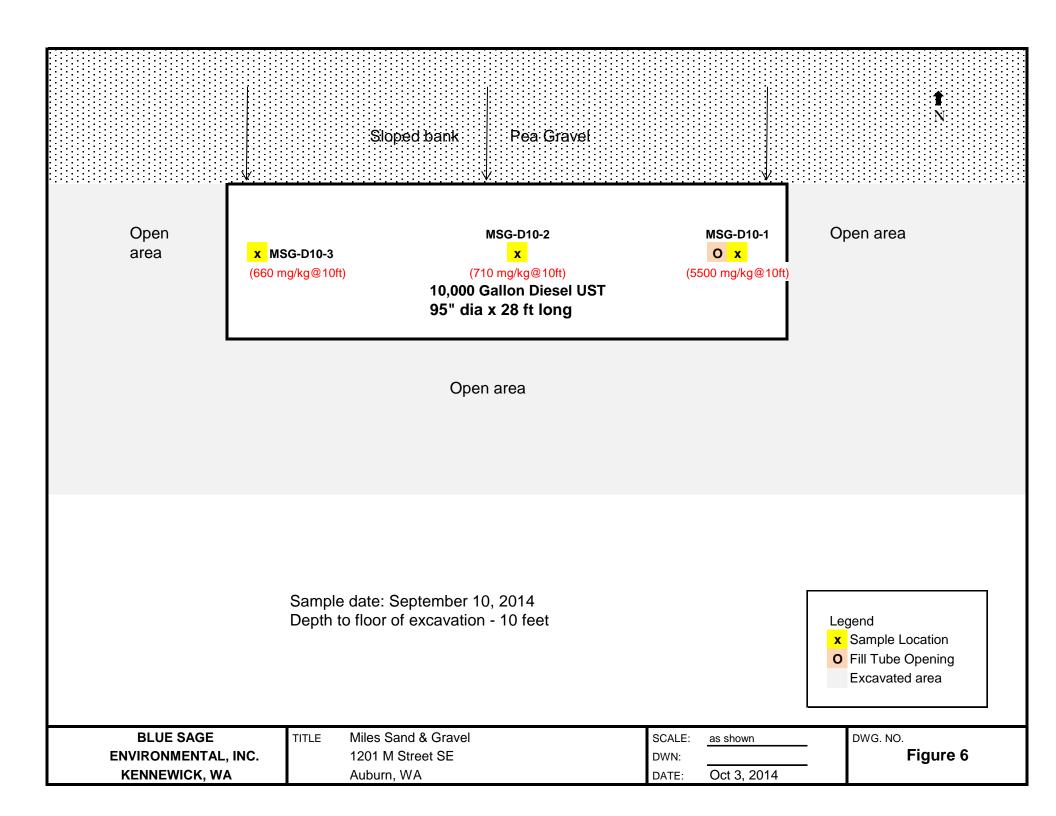
Figure 3 **UST** Layout

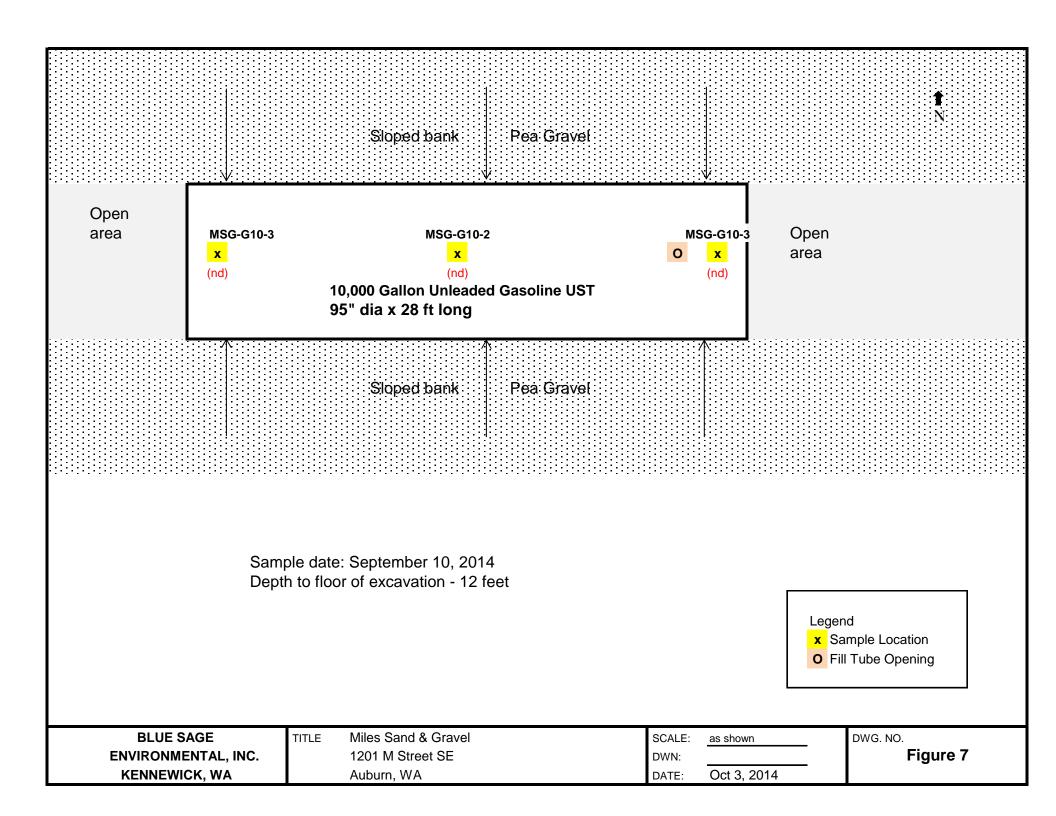
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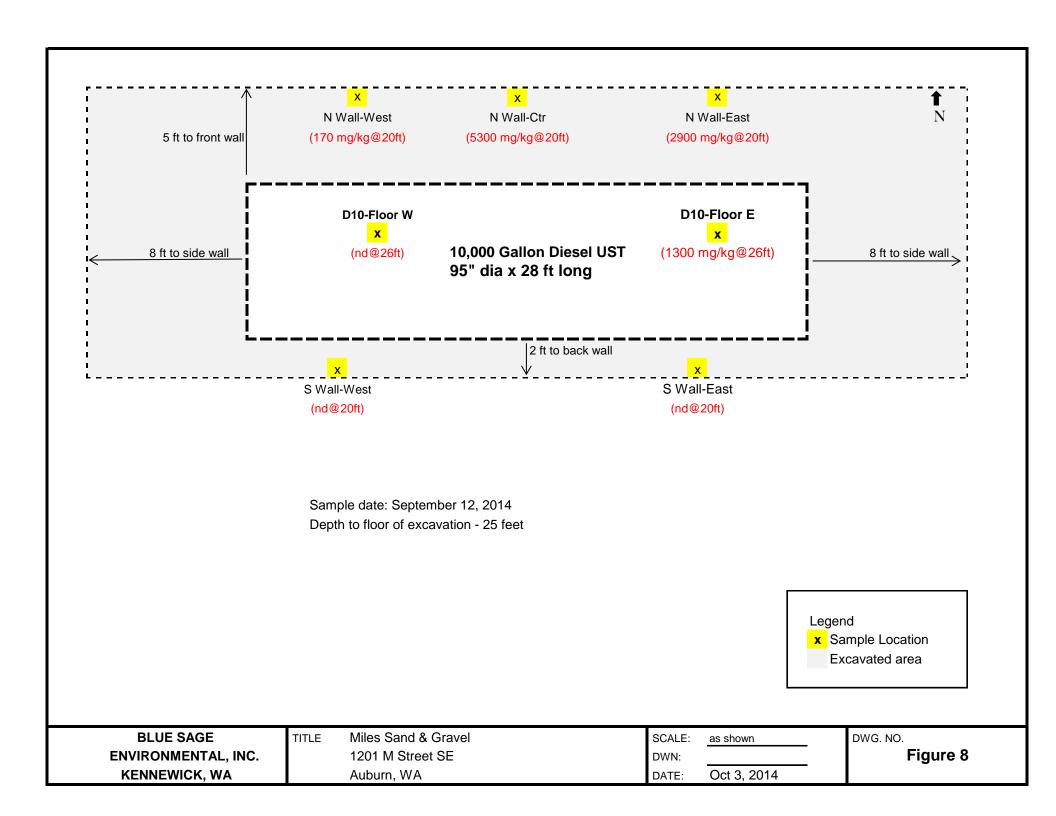
UST 3

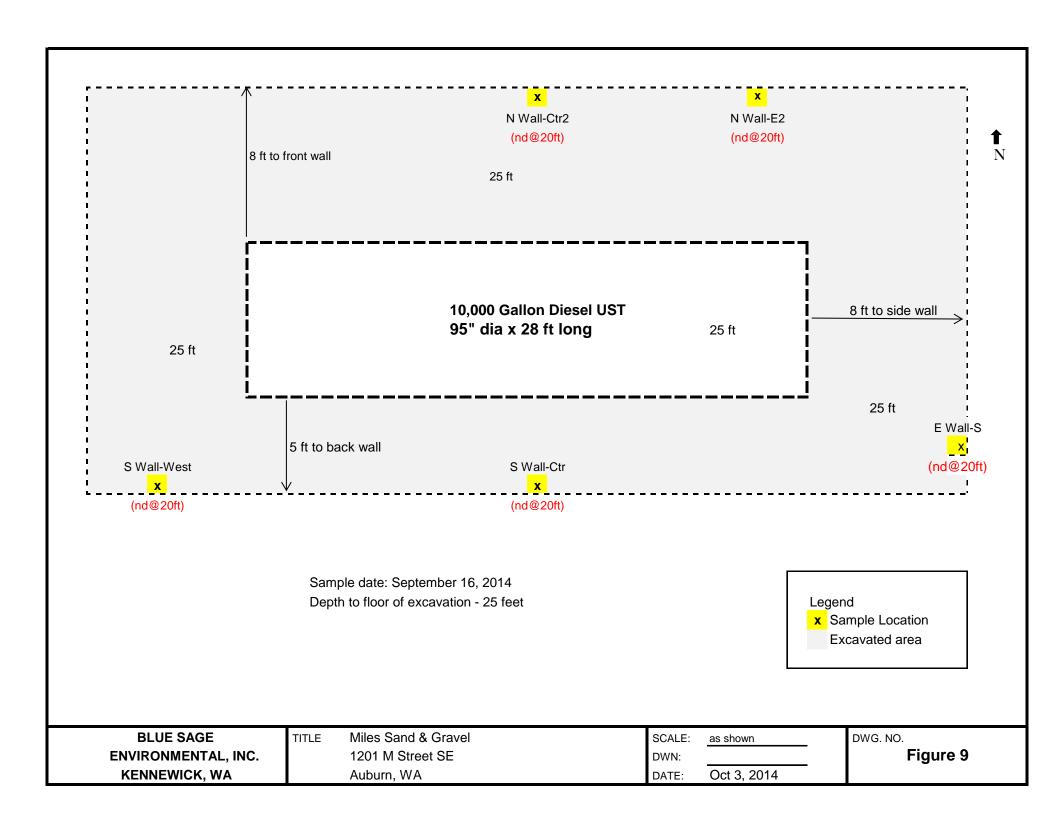












TABLES

TABLE 1 Soil Analysis Miles Sand & Gravel Company Auburn, Washington

Sample Date	Sample Number	Location	Depth (ft.)	Units	Gasoli	Rearies GAC	Saries DR	leve Lou	she fin	Juenzene Tyler	es rotal lead	
9/10/14	MSG-D20-1	20k diesel	12+	mg/kg	-	nd	nd	nd	nd	nd	-	
9/10/14	MSG-D20-2	20k diesel	12+	mg/kg	-	nd	nd	nd	nd	nd	-	
9/10/14	MSG-D20-3	20k diesel	12+	mg/kg	-	160	nd	nd	nd	nd	-	
9/10/14	MSG-D10-1	10k diesel	10+	mg/kg	-	5500	nd	nd	nd	nd	-	
9/10/14	MSG-D10-2	10k diesel	10+	mg/kg	-	710	nd	nd	nd	nd	-	
9/10/14	MSG-D10-3	10k diesel	10+	mg/kg	-	660	nd	nd	nd	nd	-	
9/10/14	MSG-G10-1	10k gas	12+	mg/kg	nd	-	nd	nd	nd	nd	-	
9/10/14	MSG-G10-2	10k gas	12+	mg/kg	nd	-	nd	nd	nd	nd	-	
9/10/14	MSG-G10-3	10k gas	12+	mg/kg	nd	-	nd	nd	nd	nd	-	

Notes:	
nd	Not detected at the listed detection limits
-	Not analyzed
710	Bold number(s) indicate contamination present
5500	Bold and shaded number(s) indicate contamination above MTCA Method A cleanup level for soils

TABLE 2 Soil Analysis Miles Sand & Gravel Company Auburn, Washington

	Sample				/8	parde de la	Range DRS	or rolli	ine /	thertere Tylenes	
Sample Date	Number	Location	Depth (ft.)	Units	Gase	orde die or	30 Bey	Toll	Eth	14/e/	
9/12/14	D10-Floor E	10k diesel	26	mg/kg	-	1300	-	-	-	-	
9/12/14	D10-Floor W	10k diesel	26	mg/kg	-	nd	-	-	-	-	
9/12/14	N Wall-East	10k diesel	20	mg/kg	-	2900	-	-	-	-	
9/12/14	N Wall-Ctr	10k diesel	20	mg/kg	-	5300	-	-	-	-	
9/12/14	N Wall-West	10k diesel	20	mg/kg	-	170	-	-	-	-	
9/12/14	S Wall-East	10k diesel	20	mg/kg	-	nd	-	-	-	-	
9/12/14	S Wall-West	10k diesel	20	mg/kg	-	nd	-	-	-	-	

Notes:	
nd	Not detected at the listed detection limits
-	Not analyzed
710	Bold number(s) indicate contamination present
5500	Bold and shaded number(s) indicate contamination above MTCA Method A cleanup level for soils

TABLE 3
Soil Analysis
Miles Sand & Gravel Company
Auburn, Washington

Sample Date	Sample Number	Location	Depth (ft.)	Units	હ્યું	organics of	Paris OR	o) ene Tolu	ane Ethi	inentene Tylene	,//
9/16/14	N Wall-E2	10k diesel	20	mg/kg	-	nd	-	-	-	-	
9/16/14	N Wall-Ctr2	10k diesel	20	mg/kg	-	nd	-	-	-	-	
9/16/14	E Wall-S End	10k diesel	20	mg/kg	-	nd	-	-	-	-	
9/16/14	S Wall-Ctr	10k diesel	20	mg/kg	-	nd	-	-	-	-	
9/16/14	S Wall-West	10k diesel	20	mg/kg	-	nd	-	-	-	-	

Notes:	
nd	Not detected at the listed detection limits
-	Not analyzed
710	Bold number(s) indicate contamination present
5500	Bold and shaded number(s) indicate contamination above MTCA Method A cleanup level for soils

TABLE 4
Soil Analysis
Miles Sand & Gravel Company
Auburn, Washington

Sample Date	Sample Number	Location	Depth (ft.)	Units	Gasal	re Rande GRO	ganics lon	pene Total	ene Ethi	bentene Ty	e tet
9/10/14	MSG-SP1	Stockpile	1	mg/kg	nd	180	nd	nd	nd	nd	Stockpiled soils from 9/10/14 excavation
9/10/14	MSG-SP2	Stockpile	1	mg/kg	nd	1200	nd	nd	nd	nd	Stockpiled soils from 9/10/14 excavation
9/10/14	MSG-SP3	Stockpile	1	mg/kg	nd	2200	nd	nd	nd	nd	Stockpiled soils from 9/10/14 excavation
9/10/14	MSG-SP4	Stockpile	1	mg/kg	nd	2000	nd	nd	nd	nd	Stockpiled soils from 9/10/14 excavation
9/10/14	MSG-SP5	Stockpile	1	mg/kg	nd	270	nd	nd	nd	nd	Stockpiled soils from 9/10/14 excavation
9/24/14	MSG-SP9	Stockpile	1	mg/kg		130	-	-	-	-	Original stockpile - 9/10/14
9/24/14	MSG-SP10	Stockpile	1	mg/kg	-	110	-	-	-	-	Original stockpile - 9/10/14
9/24/14	MSG-SP11	Stockpile	1	mg/kg		960	-	-	-	-	Original stockpile - 9/10/14
9/24/14	MSG-SP6	Stockpile	1	mg/kg		470	-	-	-	-	Stockpile 9/12&16/14, 10,000 gallon diesel
9/24/14	MSG-SP7	Stockpile	1	mg/kg	-	nd	-	-	-	-	Stockpile 9/12&16/14, 10,000 gallon diesel
9/24/14	MSG-SP8	Stockpile	1	mg/kg		nd	-	-	-	-	Stockpile 9/12&16/14, 10,000 gallon diesel
9/24/14	MSG-SP12	Stockpile	1	mg/kg	-	nd	-	-	-	-	Stockpile 9/12&16/14, 10,000 gallon diesel

Notes:	
nd	Not detected at the listed detection limits
-	Not analyzed
1200	Bold number(s) indicate contamination present
2200	Bold and shaded number(s) indicate contamination above MTCA Method A cleanup level for soils

PHOTOGRAPHS



View of Unleaded Gas pump and Diesel pumping stations

View of Diesel pumping stations



BLUE SAGE ENVIRONMENTAL, INC. KENNEWICK, WA TITLE Miles Sand & Gravel 1201 M Street SE Auburn, WA SCALE: as shown

DWN:

DATE: Oct 3, 2014

DWG. NO.

Photograph 1



USTs bedded in pea gravel



BLUE SAGE ENVIRONMENTAL, INC. KENNEWICK, WA TITLE Miles Sand & Gravel 1201 M Street SE Auburn, WA SCALE: as shown

DWN:

DATE: Oct 3, 2014

DWG. NO.



Removal of inerted USTs



BLUE SAGE ENVIRONMENTAL, INC. KENNEWICK, WA TITLE Miles Sand & Gravel 1201 M Street SE Auburn, WA SCALE: as shown
DWN:

DATE: Oct 3, 2014

DWG. NO.



Floor of excavation below Diesel USTs

Floor of excavation below Unleaded Gasoline UST



BLUE SAGE ENVIRONMENTAL, INC. KENNEWICK, WA TITLE Miles Sand & Gravel 1201 M Street SE Auburn, WA SCALE: <u>as shown</u>
DWN:

DATE: Oct 3, 2014

DWG. NO.



Excavation around 10,000 Diesel UST on September 12, 2014
North wall

Floor of excavation with north wall



BLUE SAGE ENVIRONMENTAL, INC. KENNEWICK, WA TITLE Miles Sand & Gravel 1201 M Street SE Auburn, WA SCALE: as shown
DWN:

DATE:

Oct 3, 2014

DWG. NO. **Photos 5**



Excavation around 10,000 Diesel UST on September 16, 2014
North wall

North and west walls



BLUE SAGE ENVIRONMENTAL, INC. KENNEWICK, WA TITLE Miles Sand & Gravel 1201 M Street SE Auburn, WA SCALE: as shown

DWN:

DATE: Oct 3, 2014

DWG. NO.



Native soils around UST location

Pebbles-Cobbles-Sand Mixture



BLUE SAGE ENVIRONMENTAL, INC. KENNEWICK, WA TITLE Miles Sand & Gravel 1201 M Street SE Auburn, WA SCALE: as shown

DWN:

DATE: Oct 3, 2014

DWG. NO. **Photos 7**

APPENDIX A

Ecology UST Site & Tank Data Summary



Regulated Underground Storage Tanks, Active Facilities *

King County, Auburn										
Site Name:	MILES SAND & GRAV		MILES SAND & GRAVEL AUBURN, MILES SAND & GRAVEL COMPANY INC AUBURN, MILES SAND & GRAVEL COMPANY, INC.							
Location:	1201 M ST		Resp. Unit:	NORTHWEST			Facility-Site ID:	87547247		
	Auburn	98002	Lat / Long:	47.318	-122	.214	UST Site ID:	10786		
Tank Name	Tank Status	Install Date	Capacity R	ange		Compartment #	Substance Stored			
E	Operational	3/1/1978	10,000 to 1	9,999 Gallons		1	B Unleaded Gasoline			
М	Operational	3/1/1978	10,000 to 1	9,999 Gallons		1	D Diesel			
W	Operational	3/1/1978	10,000 to 1	9,999 Gallons		1	D Diesel			

RegulatedUSTs2014_ActiveFacilities

APPENDIX B

Miles Sand & Gravel Company Well Log

STATE OF WASHINGTON DEPARTMENT OF CONSERVATION

	DIVISION OF WATER RESOU	RCESAnnl	#7075	
WELL	Log Pe	ermit #6699		
Record	by Driller			
Source	Driller's Record			
Source			(0)	
	n State of WASHINGTON			
Con	unty King			
Are	ea			
Ma	p			
	of, $9 \times x_{\text{x sec}} 19 \text{ T} 21_{\text{N,R}} 5 \text{ E}$	Diagram of	Section	
Drilling	Co Johnson Drilling Co.	J		
Ad	dress 19415 - 108th Avenue SE, Re	enton, V	lash.	
	thod of Drilling Cable Date	Septembe	er 19 65	
	Miles Company		, 10	
	dress P. O. Box 130, Auburn, Wa	ash.		
	uicss			
	urface, datum ft above below Date September 19 65	_ 10)" x 110	
SWL	Date Deptember , 19 0)	Dims -	, y 110	
Corre-		From	То	
LATION	MATERIAL	(feet)	(feet)	
If maters below lar if feasible	nscribe driller's terminology literally but 1 araphr ise as all water bearing so state and record static level if replied surface datum unless otherwise indicated. Correlate we Following log of materials list all casings perforation. Industrial use	orted Give d with stritigra s soicens etc	epths in feet phic column)	
	Clay, greyish, silty	0	11	
		ļ <u>-</u>		
	Hardpan, sand & gravel	11	40	
	Sand, loose, & gravel	40	49	
	Sand, water	49	55	
	Hardpan, brown	55	59	
	Sand, Gravel, water	59	70	
	Gravel, coarse, water	70	109_	
	Hardpan, gravel	109	110	
····	Casing 10" from 0-110'			
	Screen installed from 90-110'			
	Surface sealed to 10'			
	Yield: 400 gpm with 2' DD after	er 4 hrs	.	
	Immediate recovery			
	Test made in September, 196	\$		

Pump: 60 h.p. deep well - Peerless

Turn up

Sheet

of

sheets

APPENDIX C

Marine Vacuum Service, Inc. AST/UST Pump & Rinse Certificate

Marine Vacuum Service, Inc.

GENERAL CONTRACTOR
CONTRACTORS LICENSE # MARINVS097JA

P0. Box 24263 Seattle, Washington 98124
Telephone (206) 762-0240
FAX (206) 763-8084
1-800-540-7491

AST/UST STORAGE TANK PUMP & RINSE CERTIFICATE

Tank Size: _	10K	104	704	
Last Contents	Gras	Diese	Diesel	
Tank Location:	1201	MS-	+ - Miles	Soud
	Aubu	rn, Wi	9-	

Marine Vacuum Service, Inc. certifies that the above mentioned tank(s) have been triple rinsed in accordance with the industry standard as outlined in 40 CFR PART 280.70, WAC 173-360-380(I), API 1604, API 2015 and that all residual product and rinsate has been disposed of in accordance with Federal, State and Local regulations. Tanks listed above are NOT GAS FREE or NOT SAFE FOR HOT WORK

Tank Owner:	Miles	Sand	
Contractor:	Don Solve So	sinalls	
		e Schiri	nerdr
Date:	9-14		
Notes:			

EPA # WAD980974521

APPENDIX D

ESN Northwest Chemistry Laboratory Lab Report dated September 16, 2014

September 16, 2014

Alex Koch Blue Sage Environmental P.O. Box 6738 Kennewick, WA 99336

Dear Mr. Koch:

Please find enclosed the analytical data reports for the UST Removal Project in Auburn, Washington. Soil samples were analyzed for Diesel and Oil by NWTPH-Dx/DX Extended, Gasoline by NWTPH-Gx, and BTEX by Method 820 on September 11, 2014.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. A copy of the invoice for this work is enclosed for your records.

ESN Northwest appreciates the opportunity to have provided these services to to Blue Sage Environmental for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec

michael a Korosee

President

Miles Sand & Gravel UST Removal PROJECT Auburn, WA ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analysis of Diesel Range Organics & Lube Oil Range Organics in Soil by Method NWTPH-Dx/Dx Extended

Sample Number	Date Prepared	Date Analyzed	Surrogate Recovery (%)	Diesel Range Organics (mg/kg)	Lube Oil Range Organics (mg/kg)
Method Blank	9/11/2014	9/11/2014	82	nd	nd
LCS	9/11/2014	9/11/2014	92	105%	
MSG-SP1	9/11/2014	9/11/2014	88	180	nd
MSG-SP2	9/11/2014	9/11/2014	83	1200	nd
MSG-SP3	9/11/2014	9/11/2014	102	2200	nd
MSG-SP4	9/11/2014	9/11/2014	100	2000	nd
MSG-SP5	9/11/2014	9/11/2014	91	270	nd
MSG-SP5 Duplicate	9/11/2014	9/11/2014	94	270	nd
Reporting Limits				50	100

[&]quot;---" Indicates not tested for component.

[&]quot;nd" Indicates not detected at the listed detection limits.

Miles Sand & Gravel UST Removal Auburn Pit PROJECT Auburn, WA ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analysis of Diesel Range Organics & Lube Oil Range Organics in Soil by Method NWTPH-Dx/Dx Extended

Sample Number	Date Prepared	Date Analyzed	Surrogate Recovery (%)	Diesel Range Organics (mg/kg)	Lube Oil Range Organics (mg/kg)
Method Blank	9/11/2014	9/11/2014	82	nd	nd
LCS	9/11/2014	9/11/2014	92	105%	
MSG-D20-1	9/11/2014	9/11/2014	103	nd	nd
MSG-D20-2	9/11/2014	9/11/2014	121	nd	nd
MSG-D20-3	9/11/2014	9/11/2014	96	160	nd
MSG-D10-1	9/11/2014	9/11/2014	129	5500	nd
MSG-D10-2	9/11/2014	9/11/2014	99	710	nd
MSG-D10-3	9/11/2014	9/11/2014	88	660	nd
Reporting Limits				. 50	100

[&]quot;---" Indicates not tested for component.

[&]quot;nd" Indicates not detected at the listed detection limits.

Miles Sand & Gravel UST Removal PROJECT Auburn, WA ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analyses of Gasoline Range Organics in Soil by Method NWTPH-Gx

Sample Number	Date Prepared	Date Analyzed	Surrogate Recovery (%)	Gasoline Range Organics (mg/kg)
Method Blank	9/11/2014	9/11/2014	108	nd
LCS	9/11/2014	9/11/2014	107	114%
MSG-SP1	9/10/2014	9/11/2014	115	nd
MSG-SP2	9/10/2014	9/11/2014	109	nd
MSG-SP3	9/10/2014	9/11/2014	114	nd
MSG-SP4	9/10/2014	9/11/2014	104	nd
MSG-SP5	9/10/2014	9/11/2014	116	nd
MSG-SP5 Duplicate	9/10/2014	9/11/2014	115	nd
Reporting Limits				10

[&]quot;nd" Indicates not detected at the listed detection limits.

[&]quot;int" Indicates that interference prevents determination.

Miles Sand & Gravel UST Removal Auburn Pit PROJECT Auburn, WA ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analyses of Gasoline Range Organics in Soil by Method NWTPH-Gx

Sample Number	Date Prepared	Date Analyzed	Surrogate Recovery (%)	Gasoline Range Organics (mg/kg)
Method Blank	9/11/2014	9/11/2014	108	nd
LCS	9/11/2014	9/11/2014	107	114%
MSG-G10-1	9/10/2014	9/11/2014	108	nd
MSG-G10-2	9/10/2014	9/11/2014	116	nd
MSG-G10-3	9/10/2014	9/11/2014	117	nd
Reporting Limits		to to a suke a legal collection as		

[&]quot;nd" Indicates not detected at the listed detection limits.

[&]quot;int" Indicates that interference prevents determination.

Miles Sand & Gravel UST Removal PROJECT Auburn, WA ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analyses of BTEX (EPA Method 8260) in Soil

Sample	Date	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Surrogate
Number	Prepared	Analyzed	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Recovery (%)
Method Blank	9/11/2014	9/11/2014	nd	nd	nd	nd	106
LCS	9/11/2014	9/11/2014	104%	101%	98%	92%	111
LCSD	9/11/2014	9/11/2014	85%	85%	80%	79%	107
MSG-SP1	9/10/2014	9/11/2014	nd	nd	nd	nd	113
MSG-SP2	9/10/2014	9/11/2014	nd	nd	nd	nd	107
MSG-SP3	9/10/2014	9/11/2014	nd	nd	nd	nd	112
MSG-SP4	9/10/2014	9/11/2014	nd	nd	nd	nd	102
MSG-SP5	9/10/2014	9/11/2014	nd	nd	nd	nd	114
MSG-SP5 Duplicate	9/10/2014	9/11/2014	nd	nd	nd	nd	113
Method Detection Limits			0.00				
Memod Detection Limits		74	0.02	0.05	0.05	0.15	

[&]quot;nd" Indicates not detected at the listed detection limits.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (4-Bromofluorobenzene) & LCS: 65% TO 135%

[&]quot;int" Indicates that interference prevents determination.

Miles Sand & Gravel UST Removal Auburn Pit PROJECT Auburn, WA ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analyses of BTEX (EPA Method 8260) in Soil

Sample	Date	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Surrogate
Number	Prepared	Analyzed	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Recovery (%)
Method Blank	9/11/2014	9/11/2014	nd	nd	nd	nd	106
LCS	9/11/2014	9/11/2014	104%	101%	98%	92%	111
LCSD	9/11/2014	9/11/2014	85%	85%	80%	79%	107
MSG-D20-1	9/10/2014	9/11/2014	nd	nd	nd	nd	111
MSG-D20-2	9/10/2014	9/11/2014	nd	nd	nd	nd	108
MSG-D20-3	9/10/2014	9/11/2014	nd	nd	nd	nd	113
MSG-D10-1	9/10/2014	9/11/2014	nd	nd	nd	nd	119
MSG-D10-2	9/10/2014	9/11/2014	nd	nd	nd	nd	109
MSG-D10-3	9/10/2014	9/11/2014	nd	nd	nd	nd	109
MSG-G10-1	9/10/2014	9/11/2014	nd	nd	nd	nd	106
MSG-G10-2	9/10/2014	9/11/2014	nd	nd	nd	nd	111
MSG-G10-3	9/10/2014	9/11/2014	nď	nd	nd	nd	115
Method Detection L	imits		0.02	0.05	0.05	0.15	

[&]quot;nd" Indicates not detected at the listed detection limits.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (4-Bromofluorobenzene) & LCS: 65% TO 135%

[&]quot;int" Indicates that interference prevents determination.

Environmental
Services Network

SHOTH CHAIN-OF-CUSTODY RECORD

□ ESN DISPOSAL @ \$2.00 each □ Relum □ Pickup	SAMPLE DISPOSAL INSTRUCTIONS	- Ann	RECEIV		RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature)	C		16	MSG-SOS L L	*		××	WSG-50 KX	MSG-GLD-3 14 /	310-2 14 / \	MSG-616-1 14 / X	MSG-DIO-3 12 \ \ \ \ \ \	MSG-DI0-2 12 1 2 - 010-028M	MSG-DIO-1 112 11	MSG-DZD-3 IS /	55	1 1856-D20-1 15 SOIL ARELYOR X	Sample Number Depth Time Type Container Type	CT #: MIKE SCHILH PROJE	PHONE (253) 833-3705 FAX:	ADDRESS: 400 Valley AVENE PLYALLU	CLIENT: MILES SAND & GRAVEL
	ZE	····			UN DATE (TIME				*			X												SER: DEK	e designation des productions de la company de la comp	UP 98372	(BSE)
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48 HR 5 DAY	,									W		W	L _v	W	W		V	W	N	N.	Ų.		Total Number of Containers Laboratory Note Number	COLLECTION 1/4		en e	

APPENDIX E

ESN Northwest Chemistry Laboratory Lab Report dated September 16, 2014

September 16, 2014

Alex Koch Blue Sage Environmental P.O. Box 6738 Kennewick, WA 99336

Dear Mr. Koch:

Please find enclosed the analytical data reports for the Auburn Pit-UST's Project in Auburn, Washington. Soil samples were analyzed for Diesel and Oil by NWTPH-Dx/DX Extended on September 12, 2014.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. A copy of the invoice for this work is enclosed for your records.

ESN Northwest appreciates the opportunity to have provided these services to to Blue Sage Environmental for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec

Michael a Korose

President

Miles Sand & Gravel Auburn Pit-USTs PROJECT Auburn, WA ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analysis of Diesel Range Organics & Lube Oil Range Organics in Soil by Method NWTPH-Dx/Dx Extended

Sample	Date	Date	Surrogate	Diesel Range Organics	Lube Oil Range Organics
Number	Prepared	Analyzed	Recovery (%)	(mg/kg)	(mg/kg)
Method Blank	9/12/2014	9/12/2014	86	nd	nd
LCS	9/12/2014	9/12/2014	86	104%	
D10-Floor E	9/12/2014	9/12/2014	91	1300	nd
D10-Floor W	9/12/2014	9/12/2014	83	nd	nd
N Wall East	9/12/2014	9/12/2014	94	2900	nd
N Wall Ctr	9/12/2014	9/12/2014	105	5300	nd
N Wall West	9/12/2014	9/12/2014	93	170	nd
S Wall East	9/12/2014	9/12/2014	83	nd	nd
S Wall West	9/12/2014	9/12/2014	86	nd	nd
S Wall West dup	9/12/2014	9/12/2014	86	nd	nd
Reporting Limits				50	100

[&]quot;---" Indicates not tested for component.

[&]quot;nd" Indicates not detected at the listed detection limits.

Environmental Services Network	

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CHAIN-OF-CUSTODY RECORD

□ ESN DISPOSAL	S	A STATE OF THE STA	RELINCTURED BY (Signature)	文	RELINQUISHED BY (Signature)	Ö		J.	4	7			L Sage	6. SWall - Fast 20	LXXX.		3.N wall - Fast 20	2.DIO-Floor W 28	1 DIA-Floor E 28	Sample Number Depth	CLIENT PROJECT #:	PHONE:	ADDRESS:	CLIENT: MILES SA
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NACE HER								And the second section of the second	A CONTRACTOR OF THE PROPERTY O											Total Number of Containers Laboratory Note Number	contection 12/14			Section of the sectio

APPENDIX F

ESN Northwest Chemistry Laboratory Lab Report dated September 23, 2014

September 23, 2014

Alex Koch Blue Sage Environmental P.O. Box 6738 Kennewick, WA 99336

Dear Mr. Koch:

Please find enclosed the analytical data reports for the Auburn Pit-UST's Project in Auburn, Washington. Soil samples were analyzed for Diesel and Oil by NWTPH-Dx/DX Extended on September 16, 2014.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. A copy of the invoice for this work is enclosed for your records.

ESN Northwest appreciates the opportunity to have provided these services to to Blue Sage Environmental for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec

Michael a Korosen

President

Miles Sand & Gravel AUBURN PIT UST REMOVAL Auburn, WA ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analysis of Diesel Range Organics & Lube Oil Range Organics in Soil by Method NWTPH-Dx/Dx Extended

Sample	Date	Date	Surrogate	Diesel Range Organics	Lube Oil Range Organics			
Number	Prepared	Analyzed	Recovery (%)	(mg/kg)	(mg/kg)			
Method Blank	9/16/2014	9/16/2014	78	nd	nd			
LCS	9/16/2014	9/16/2014	99	87%				
NWall- East2	9/16/2014	9/16/2014	131	nd	nd			
NWall- Ctr2	9/16/2014	9/16/2014	100	nd	nd			
East Wall-S End	9/16/2014	9/16/2014	93	nd	nd			
S Wall-Ctr	9/16/2014	9/16/2014	84	nd	nd			
S Wall- W End	9/16/2014	9/16/2014	75	nd	nd			
S Wall- W End Duplicate	9/16/2014	9/16/2014	93	nd	nd			
Reporting Limits				50	100			

[&]quot;---" Indicates not tested for component.

[&]quot;nd" Indicates not detected at the listed detection limits.

Environmental
Services Network

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CHAIN-OF-CUSTODY RECORD

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SAMPLE DISPOSAL INSTRUCTIONS DISPOSAL @ \$2.00 each D Return D		DATESTIME TRECEIVE		DATE/TIME RECEIVE								9		8	85 	第 次 章	Time Type Container Type	PROJEC	FAX:	erie der der der der der der der der der de	TOWARD OF THE
m () Pickup	V	RECEIVED BY (Signature) DATESTIME		RECEIVED BY (Signature) DATE/TIME										8				PROJECT MANAGER: ALGOCH	Semination of the semination o	DIVATION OF THE PROPERTY OF TH	(6%)
NOTES:	SEALS INTACT? YAWNA	CHAIN OF CUSTODY SEALS YMINA	TOTAL NUMBER OF CONTAINERS	ØAEPIR RECEIPT														COLLECTOR: ANK	LOCATION:QUBLEN	PROJECT NAME: MICKESS	DATE: 4-16-7014
Turn Around Time: 24 HP 48 HR 5 DAY				LABORATORY NOTES:													Total Number of Containers Laboratory Note Number	COLLECTION COLLECTION		SSEG	PAGE OF

APPENDIX G

ESN Northwest Chemistry Laboratory Lab Report dated September 30, 2014

September 30, 2014

Alex Koch Blue Sage Environmental P.O. Box 6738 Kennewick, WA 99336

Dear Mr. Koch:

Please find enclosed the analytical data reports for the UST Removal Project in Auburn, Washington. Soil samples were analyzed for Diesel and Oil by NWTPH-Dx/Dx Extended on September 24, 2014.

The results of the analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. A copy of the invoice for this work is enclosed for your records.

ESN Northwest appreciates the opportunity to have provided these services to to Blue Sage Environmental for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael A. Korosec

midal a Koran

President

Miles Sand & Gravel UST Removal PROJECT Auburn, WA ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analysis of Diesel Range Organics & Lube Oil Range Organics in Soil by Method NWTPH-Dx/Dx Extended

Sample	Date	Date	Surrogate	Diesel Range Organics	Lube Oil Range Organics
Number	Prepared	Analyzed	Recovery (%)	(mg/kg)	(mg/kg)
Method Blank	9/24/2014	9/24/2014	90	nd	nd
LCS	9/24/2014	9/24/2014	112	69%	
MSG-SP6	9/24/2014	9/24/2014	110	nd	470
MSG-SP7	9/24/2014	9/24/2014	101	nd	nd
MSG-SP8	9/24/2014	9/24/2014	95	nd	nd
MSG-SP9	9/24/2014	9/24/2014	117	130	nd
ASG-SP10	9/24/2014	9/24/2014	105	110	nd
MSG-SP11	9/24/2014	9/24/2014	111	960	nd
MSG-SP12	9/24/2014	9/24/2014	95	nd	nd
MSG-Sp12 Duplicate	9/24/2014	9/24/2014	111	nd	nd
Reporting Limits				50	100

[&]quot;---" Indicates not tested for component.

[&]quot;nd" Indicates not detected at the listed detection limits.

ESN Environmental

NORTHWEST, DC. Services Network

SHOPLS

CHAIN-OF-CUSTODY RECORD

DESN DISPOSAL @ \$2.00 each D F	Ž		OCI NOTICE DAY (Stonature) DATE/TIME RECEIVED			16.	15.	14	۵	12	10.	9	8	-	=	=	-	-Sp7 /	1 MSG-SPG DP00 / Lic 42	Sample Number Depth Time Type Container Type	PROJECT #:	And Advanced to the Communication of the Communicat	\$S:	CLIENT: MILES SAND & GRAVEL
Return 11 Pictup			BY (Stonatury) Towns I will be		RECEIVED BY (Signature) DATE/TIME									*	***		×	×			ROCK!	FAX:	PLWALLUP F	
	NECEIVED GOOD CONDINOUT	SEALS INTACT? YININA	CHAIN OF CUSTODY SEALS Y/NINA	7	SAMPLE RECEIPT																COLLECTOR: AHK	LOCATION: ALBURN	PROJECT NAME: LIST REMOVAL	DATE: 9.24-14 PAGE
	Turn Around Time: (24 HB) 48 HR 5 DAY				LABORATORY NOTES:			en de l'approprie de												Total Number of Containers Laboratory Note Number	COLLECTION	26.1	Tomas de la minima de la manda	7